3rd International Conference on Sustainable Development Indicators in the Minerals Industry

Milos Island, Greece
17-20 June 2007

Sustainable Development at Rio Tinto

Preston S. Chiaro
Chief Executive Energy, Rio Tinto
www.riotinto.com
Rio Tinto – a leader in sustainable development

Rossing: Namibian women harvesting asparagus on Rossing Foundation Asparagus Farm in the Namib desert. The farm teaches skills and creates jobs.
We aspire to be the:

- Developer of choice
- Employer of choice
- Supplier of choice
- Neighbor of choice
Rio Tinto - a world leader in mining

Technology

Exploration

Aluminium

Copper

Minerals and Diamonds

Iron

Energy
Sustainable Development Leadership Panel

- Embed SD culture throughout Rio Tinto
- Incorporate SD principles in key performance indicators
- Improve communication connections
- Consider SD in the supply chain
- Build SD into risk assessments
- Build SD into long range planning
- Quantify business benefits of SD
- Develop SD guidelines for joint ventures
- Partner with SD leaders
Rio Tinto - a leader in safety

Note: Data for Australia and the USA has been normalised to include restricted workdays and contractors in the LTIFR calculation.

Source: Rio Tinto
Rio Tinto Industrial Minerals
Rio Tinto Diamonds helped form the Council for Responsible Jewellery Practices
Rio Tinto HI smelt® improves steel-making and reduces GHG emissions
The climate change science “debate” is over
Building support for government action

- Encourage leadership
- Set credible limits for future emissions
- Support technology development and deployment
- Utilize broad-based market mechanisms
- Encourage international linkages for technology development AP6, CSLF, G8 + IEA
Developing low emission pathways for our products

- Bulk: Coal, Salt, Iron Ore, Bauxite, Iron Pellets, Talc
- Processed: Zinc Conc., Cu Conc., Borates, Alumina, Iron & Ti, Copper
- Smelted: Aluminium
- Precious: Gold, Diamonds

GJ/t Product
Taking a proactive stance at our operations to reduce greenhouse gas emissions
Climate change adaptation is an important risk management issue.
Rio Tinto – a leader in resources

Energy Locations are highlighted in Red
Climate change could affect our operations within their current reserve lives
Perfluorocarbons have been drastically reduced at our smelting operations
Efficient use of energy can avoid GHG emissions, and is being addressed through excellence in energy management.
New mining techniques can reduce material movements
Increasing comminution efficiency offers potential for improvements
We must work with our customers to address climate change
Thermal insulation can meet existing Kyoto commitments in Europe
High efficiency motors offer new markets and reduced energy consumption
World primary energy demand continues to rise

*Oil, gas and coal together account for 83 percent of the growth in energy demand between now and 2030 in the Reference Scenario*

 Renewables have a key role to play
Energy Resources of Australia
Rössing Uranium
Rio Tinto Coal Australia
Note: In 2004 hydro supplied 2,800 TWh, about the same as nuclear power (2,758 TWh). According to WEC, the world’s total technically exploitable hydro capacity is about 14,400 TWh/yr.

Sources: BP Statistical Review 2007; WEC Survey of Energy Resources 2001; Reasonably Assured Sources plus inferred resources to US$80/kg U 1/1/03 from OECD NEA & IAEA Uranium 2003; Resources, Production & Demand updated 2005; *energy equivalence of uranium assumed to be ~20,000 times that of coal
LCA power generation emissions from nuclear and CCS match those from renewables

Source: CISS, 2002
Coal gasification offers an efficient means of separating and capturing CO$_2$
Hydrogen Energy

A joint venture
Size does matter!

Cumulative globally sequestered CO₂ → Cumulative global need to sequester CO₂
Good governance is the foundation of sustainable development
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